

CLAIMS

1. An information reproduction apparatus comprising: a
rotating section for rotating a disk-like information
5 carrier on which a unit of continuous information capable
of being continuously read out is recorded; a CLV control
section for controlling the rotating section in such a manner
that the information carrier is rotated at a constant linear
velocity; a CAV control section for controlling the rotating
10 section in such a manner that the information carrier is
rotated at a constant angular velocity; a rotation control
selection section for selectively operating the CLV control
section or the CAV control section; and an information
determination section for detecting an information length
15 of the continuous information,

wherein the rotation control selection section is
constructed in such a manner as to selectively operate the
CLV control section or the CAV control section based on a
result of the detection of the information length of the
20 continuous information by the information determination
section.

2. An information reproduction apparatus according to
claim 1, wherein when first information having the
25 information length as detected by the information
determination section larger than a predetermined size is
reproduced, the CLV control section is operated, and when
second information having the information length as
detected by the information determination section smaller
30 than the predetermined size is reproduced, the CAV control
section is operated.

3. An information reproduction apparatus according to

claim 1, wherein when first information having the information length as detected by the information determination section larger than a predetermined size is reproduced, the CAV control section is controlled in such
5 manner that the information carrier is rotated at as low a number of revolutions as a level where a transfer rate required to reproduce information recorded in a most inner circumstance of the disk-like information carrier can be secured, and

10 when second information having the information length as detected by the information determination section smaller than the predetermined size is reproduced, the CAV control section is operated.

15 4. An information reproduction apparatus according to claim 1, wherein the continuous information includes a header portion recording a block size or a file size, and a data portion, and the information determination section is constructed in such a manner as to detect the information
20 length based on a content of the header portion.

25 5. An information reproduction apparatus according to claim 2, wherein the information carrier has a first information recording area at an inner circumference side and a second information recording area at an outer circumference side both arranged in a radial direction, and the first information is recorded in the first information recording area and the second information is recorded in the second information recording area.

30 6. An information reproduction apparatus according to claim 1, further comprising: a focusing section for focusing a light beam to the information carrier; a focusing

control section for controlling the light beam focused by the focusing section into a predetermined focus state; a tracking control section for controlling the light beam focused by the focusing section in such a manner that the
5 light beam correctly scans a track on the information carrier; and a reproduced signal processing section for reproducing a signal read out from the information carrier.

7. An information reproduction apparatus comprising: a
10 rotating section for rotating a disk-like information carrier on which moving image information is recorded; a CLV control section for controlling the rotating section in such a manner that the information carrier is rotated at a constant linear velocity; a CAV control section for controlling the rotating section in such a manner that the information carrier is rotated at a constant angular velocity; a rotation control selection section for selectively operating the CLV control section or the CAV control section; a reproduced signal processing section for
15 reading out the moving image information from the information carrier and processing the moving image information; and an information determination section for determining whether or not a type of information to be reproduced is moving image information,
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25 wherein the rotation control selection section is constructed in such a manner as to selectively operate the CLV control section or the CAV control section based on a result of the determination by the information determination section of whether or not information to be
30 reproduced is moving image information.

8. An information reproduction apparatus according to claim 7, wherein when the information determination section

determines that the type of information to be reproduced is moving image information, the CLV control section is operated.

5 9. An information reproduction apparatus according to claim 7, wherein when the information determination section determines that the type of information to be reproduced is moving image information, the CAV control section is controlled in such a manner that the information carrier
10 is rotated at as low a number of revolutions as a level where a transfer rate required to reproduce information recorded in a most inner circumstance can be secured.

15 10. An information reproduction apparatus according to claim 7, wherein the information determination section is constructed in such a manner that when it is detected that an information length of information to be reproduced is greater than or equal to about 1 GB, the information determination section determines that the information to be reproduced is moving image information.

20 11. An information reproduction apparatus according to claim 7, wherein the information determination section is constructed in such a manner that when a command specialized in reading of moving image information is input, the information determination section determines that the information to be reproduced is moving image information.

25 12. An information reproduction apparatus according to claim 7, wherein the information determination section is constructed in such a manner that when it is verified that a regional code is recorded in the information carrier, the information determination section determines that the

information to be reproduced is moving image information.

13. An information reproduction apparatus according to
claim 7, wherein the information determination section is
5 constructed in such a manner that when it is verified that
defect management information is not registered in the
information carrier, the information determination section
determines that the information to be reproduced is moving
image information.

10 14. An information reproduction apparatus according to
claim 7, wherein the information determination section is
constructed in such a manner that when it is verified that
an extension of information to be reproduced indicates a
15 MPEG or VOB file, the information determination section
determines that the information to be reproduced is moving
image information.

20 15. An information reproduction apparatus according to
claim 7, wherein the information determination section is
constructed in such a manner that when it is verified that
information to be reproduced is restrained under a parental
lock, the information determination section determines that
the information to be reproduced is moving image
25 information.

30 16. An information reproduction apparatus according to
claim 7, wherein the information determination section is
constructed in such a manner that when it is verified that
authentication has been conducted so as to protect copyright,
the information determination section determines that the
information to be reproduced is moving image information.

17. An information reproduction apparatus according to claim 1, further comprising: a focusing section for focusing a light beam to the information carrier; a focusing control section for controlling the light beam focused by the focusing section into a predetermined focus state; a tracking control section for controlling the light beam focused by the focusing section in such a manner that the light beam correctly scans a track on the information carrier; and a reproduced signal processing section for reproducing a signal read out from the information carrier.

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18. An information carrier, wherein the information carrier is a disk-like information carrier having a plurality of information recording areas, the plurality of information recording areas are separated along a radial direction of the information carrier, and information is recorded in each of the plurality of information recording area depending on the information length of a unit of continuous information capable of being continuously read out.

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19. An information carrier according to claim 18, wherein information having an information length of continuous information larger than a predetermined size is recorded in the information recording area at an inner circumference side of the information carrier, and information having an information length of continuous information smaller than the predetermined size is recorded in the information recording area at an outer circumference side of the information carrier.

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20. An information carrier according to claim 18, wherein a specific area for recording the number of the plurality of information recording areas, positional information of

each information recording area, and a minimum size of continuous information recorded in each information recording area is further provided.

5 21. An information recording apparatus comprising a recording section for recording information including a unit of continuous information capable of being continuously recorded into a disk-like information carrier having a plurality of information recording areas separated
10 along a radial direction of the information carrier, wherein the information recording apparatus further includes an information determination section for detecting an information length of the continuous information, and the recording section is constructed in such a manner that the continuous information is recorded into the corresponding information recording area depending on the information length detected by the information determination section.

15 22. An information recording apparatus according to claim 21, wherein the recording section is controlled by the information determination section in such a manner that information having an information length of continuous information larger than a predetermined size is recorded in the information recording area at an inner circumference side of the information carrier, and information having an information length of continuous information smaller than the predetermined size is recorded in the information recording area at an outer circumference side of the information carrier.

20 23. An information recording apparatus according to claim 21, wherein the recording section is constructed in such a manner that the number of the plurality of information

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recording areas, positional information of each information recording area, and a minimum size of continuous information recorded in each information recording area are recorded in a specific area of the information carrier.

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24. An information recording apparatus according to claim 21, further comprising: a rotating section for rotating the information carrier at a predetermined number of revolutions; a focusing section for bringing and focusing a light beam to the information carrier; a focusing control section for controlling the light beam focused by the focusing section into a predetermined focus state; and a tracking control section for controlling the light beam in such a manner that the light beam correctly scans a track on the information carrier.

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